



July 2009

DEPARTMENT OF EDUCATION
2008–2009 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State accountability standards of Maine's *Learning Results*. The *Learning Results* contain goals for what all students should know and be able to do at certain times in their school careers and include the accountability standards that are assessed for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind* Act.

The 2008-2009 MEA Summary Reports contain the results of student achievement in reading and mathematics at all grades and science at grades 5 and 8 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. More information about the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the assessments.

Sincerely,

Susan A. Gendron
Commissioner of Education



School Report Grade 8

Test Date: March 2009
Code: 10161176
SAU: Biddeford School Department
School: Biddeford Middle School

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

<i>Topic</i>	<i>Page</i>
Summary of Scores	2
Summary of Student Participation	3
English Language Arts – Reading Results	4-6
Mathematics Results	7-9
Science Results	10-12

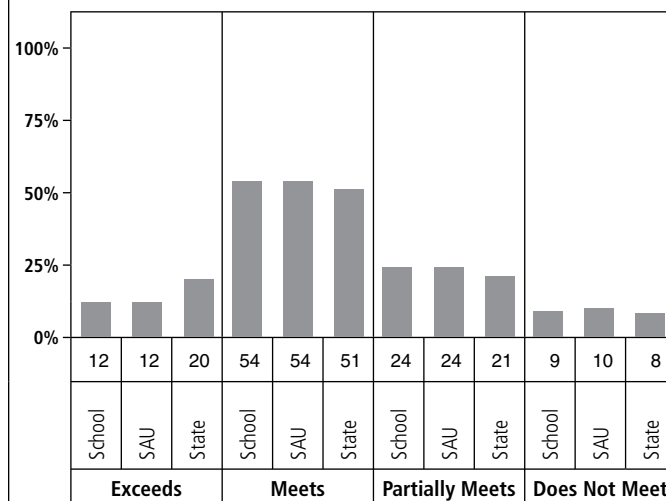
SUMMARY OF SCORES

Test Date: March 2009
Grade: 8
SAU: Biddeford School Department
School: Biddeford Middle School

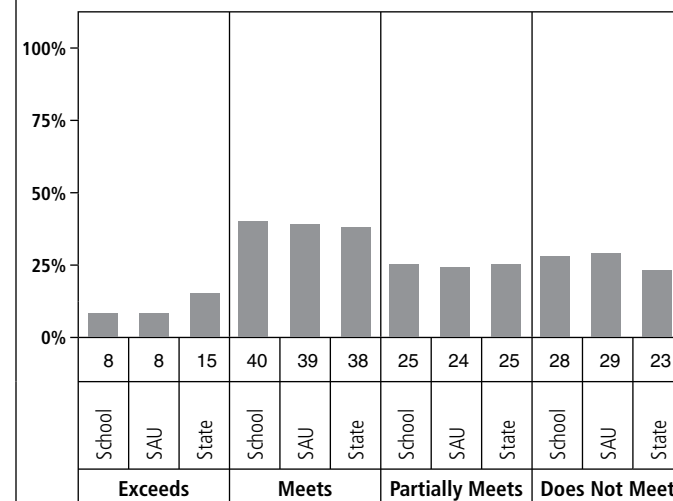
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2006–2007	843	842	847
2007–2008	844	844	849
2008–2009	848	848	850
Cum. Avg.*	845	845	849
Mathematics			
2006–2007	836	835	842
2007–2008	835	835	841
2008–2009	839	839	843
Cum. Avg.*	837	836	842
Science			
2008–2009 **			846

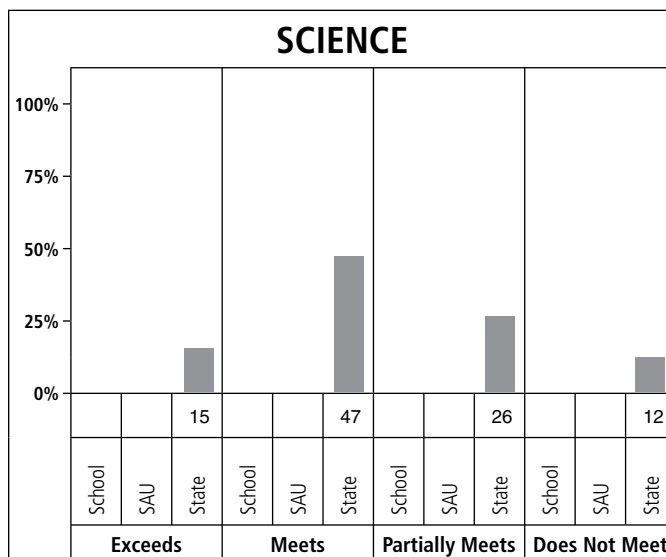
ELA – READING



MATHEMATICS



SCIENCE



*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

** Because science standards were reset in May 2009, no historical data are available

SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2009
 Grade: 8
 SAU: Biddeford School Department
 School: Biddeford Middle School

CATEGORY OF PARTICIPATION	Enrollment ¹ during testing window						CONTENT AREA PARTICIPATION ²																	
	School		SAU		State		ELA-Reading						Mathematics						Science					
							School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	198	100	201	100	14804	100	197	99	200	100	14659	99	198	100	201	100	14653	99	196	99	199	99	14626	99
Ethnicity African American/Black	5	3	5	2	377	3	5	100	5	100	366	97	5	100	5	100	371	98	5	100	5	100	367	97
American Indian or Native Alaskan	1	1	1	0	119	1	1	100	1	100	117	99	1	100	1	100	115	97	1	100	1	100	116	98
Asian or Pacific Islander	3	2	3	1	238	2	3	100	3	100	232	97	3	100	3	100	234	98	3	100	3	100	234	98
Hispanic	5	3	5	2	192	1	4	80	4	80	188	98	5	100	5	100	191	100	4	80	4	80	190	99
Caucasian/White	184	93	187	93	13878	94	184	100	187	100	13756	99	184	100	187	100	13742	99	183	99	186	99	13719	99
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Identified disability	30	15	33	16	2489	17	30	100	33	100	2434	99	30	100	33	100	2424	98	30	100	33	100	2418	98
Current LEP	3	2	3	1	349	2	2	67	2	67	331	95	3	100	3	100	342	98	2	67	2	67	338	97
Economically disadvantaged	82	41	84	42	5460	37	81	99	83	99	5380	99	82	100	84	100	5377	99	80	98	82	98	5359	98
Migrant	0	0	0	0	6	0	0	0	0	0	6	100	0	0	0	0	6	100	0	0	0	0	6	100

MODE OF PARTICIPATION ³	ELA-Reading						Mathematics						Science					
	School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	171	86	173	86	12132	82	171	86	173	86	12124	82	170	86	172	86	12169	82
Identified disability (PET/IEP)	4	2	6	3	379	3	4	2	6	3	380	3	4	2	6	3	425	3
LEP	2	1	2	1	166	1	2	1	2	1	169	1	2	1	2	1	168	1
504 plan	2	1	2	1	200	2	2	1	2	1	200	2	2	1	2	1	202	2
Participation with accommodations	22	11	22	11	2349	16	23	12	23	11	2347	16	24	12	24	12	2288	15
Identified disability (PET/IEP)	22	100	22	100	1877	80	22	96	22	96	1862	79	24	100	24	100	1824	80
LEP	0	0	0	0	158	7	1	4	1	4	167	7	0	0	0	0	165	7
504 plan	0	0	0	0	70	3	0	0	0	0	70	3	0	0	0	0	66	3
Other	0	0	0	0	292	12	0	0	0	0	297	13	0	0	0	0	280	12
Participation through alternate assessment (PAAP)	4	2	5	2	178	1	4	2	5	2	182	1	2	1	3	1	169	1
Identified disability (PET/IEP)	4	100	5	100	178	100	4	100	5	100	182	100	2	100	3	100	169	100
LEP	0	0	0	0	7	4	0	0	0	0	6	3	0	0	0	0	5	3
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approved non-participation in reading – 1st year LEP	0	0	0	0	0	0												
Approved non-participation – special consideration	0	0	0	0	32	0	0	0	0	0	34	0	0	0	0	0	38	0
Non-participation – other	1	1	1	0	113	1	0	0	0	0	117	1	2	1	2	1	140	1

¹Percents are the percentage of students enrolled in each participation category.

²Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

³Percents are the percentage of students in each content area by mode.

ELA–READING RESULTS

Test Date: March 2009
Grade: 8
SAU: Biddeford School Department
School: Biddeford Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (Scaled Score 862–880)	2006-2007	18	9	18	9	2407	16
	2007-2008	18	9	18	9	3428	23
	2008-2009	24	12	24	12	2857	20
	Cum. Total*	60	10	60	10	8692	19
Meets the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (Scaled Score 842–860)	2006-2007	86	45	86	44	7494	49
	2007-2008	103	50	103	50	7179	48
	2008-2009	105	54	105	54	7431	51
	Cum. Total*	294	50	294	49	22104	49
Partially Meets the Standards – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (Scaled Score 830–840)	2006-2007	53	27	53	27	3628	24
	2007-2008	48	23	48	23	2706	18
	2008-2009	47	24	47	24	2979	21
	Cum. Total*	148	25	148	25	9313	21
Does Not Meet the Standards – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (Scaled Score 800–828)	2006-2007	36	19	39	20	1810	12
	2007-2008	38	18	38	18	1611	11
	2008-2009	17	9	19	10	1214	8
	Cum. Total*	91	15	96	16	4635	10

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Reading Total Points	56	100	34.5	61.6	34.3	61.3	35.5	63.4
A1/A2 Interconnected Elements/Literary Text	20	36	11.9	59.5	11.8	59.0	12.3	61.5
A1/A3/4 Interconnected Elements/Informational Text/Persuasive Text	36	64	22.6	62.8	22.5	62.5	23.2	64.4

The MEA measures student achievement of the interconnected elements of the reading process based on questions related to literary and informational/persuasive reading passages. Reading passages include both long and short texts, selected from developmentally appropriate works. MEA reading items measure the English Language Arts accountability content standard A, Reading, contained in Maine’s 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at:
<http://www.maine.gov/education/lres/pei/index.html>.



ELA-READING RESULTS

(CONTINUED)

Test Date: March 2009
 Grade: 8
 SAU: Biddeford School Department
 School: Biddeford Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	193	24	12	105	54	47	24	17	9	848	195	12	54	24	10	848	14481	20	51	21	8	850
Ethnicity																						
African American/Black	5	1	20	2	40	1	20	1	20	844	5	20	40	20	20	844	362	8	43	29	20	843
American Indian or Native Alaskan	1										1						116	10	46	26	18	843
Asian or Pacific Islander	3										3						231	28	43	19	10	851
Hispanic	4										4						186	17	48	23	12	847
Caucasian/White	180	23	13	98	54	44	24	15	8	849	182	13	54	24	9	848	13586	20	52	20	8	850
Not Reported	0										0						0					
Identified disability																						
Yes	26	0	0	7	27	10	38	9	35	835	28	0	25	36	39	833	2256	2	25	40	34	834
No	167	24	14	98	59	37	22	8	5	850	167	14	59	22	5	850	12225	23	56	17	4	853
Current LEP																						
Yes	2										2						324	5	34	36	26	838
No	191	24	13	104	54	46	24	17	9	848	193	12	54	24	10	848	14157	20	52	20	8	850
Economically disadvantaged																						
Yes	79	9	11	33	42	22	28	15	19	844	81	11	41	27	21	843	5277	10	46	29	15	844
No	114	15	13	72	63	25	22	2	2	851	114	13	63	22	2	851	9204	26	54	16	5	853
Migrant																						
Yes	0										0						5	0	40	60	0	841
No	193	24	12	105	54	47	24	17	9	848	195	12	54	24	10	848	14476	20	51	21	8	850
Gender																						
Female	108	19	18	54	50	23	21	12	11	850	108	18	50	21	11	850	7074	25	51	18	6	852
Male	85	5	6	51	60	24	28	5	6	846	87	6	59	28	8	845	7407	14	51	23	11	847
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	28	1	4	5	18	18	64	4	14	839	28	4	18	64	14	839	857	9	43	35	14	843
No	165	23	14	100	61	29	18	13	8	850	167	14	60	17	9	849	13624	20	52	20	8	850
Gifted/talented program																						
Yes	0										0						700	69	30	1	0	867
No	193	24	12	105	54	47	24	17	9	848	195	12	54	24	10	848	13781	17	52	22	9	849

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

ELA-READING RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2009
 Grade: 8
 SAU: Biddeford School Department
 School: Biddeford Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	5	1	10	3	30	5	50	1	10	841	6	8	25	42	25	836	8	8	39	29	24	841
B. less than one hour	65	11	9	79	63	26	21	9	7	848	65	9	63	21	7	848	51	17	53	22	8	849
C. one to two hours	27	12	23	20	38	15	29	5	10	850	27	23	38	29	10	850	36	24	52	18	5	852
D. more than two hours	2	0	0	2	50	1	25	1	25	846	2	0	50	25	25	846	5	29	45	18	9	852
Which of the following best describes how you rate yourself as a student in reading?																						
A. very good	39	18	24	42	56	9	12	6	8	854	39	24	56	12	8	854	31	35	50	11	4	856
B. good	47	6	7	55	62	23	26	5	6	848	47	7	60	25	8	847	47	16	55	21	7	849
C. fair	12	0	0	5	23	12	55	5	23	835	11	0	23	55	23	835	18	5	47	33	15	842
D. poor	3	0	0	2	40	3	60	0	0	839	3	0	40	60	0	839	3	2	39	37	22	839
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?																						
A. The questions on the test match what I have learned in reading class.	25	4	8	35	73	8	17	1	2	853	25	8	71	16	4	852	32	27	54	14	5	853
B. They match some of what I have learned.	58	19	17	53	48	26	24	12	11	848	57	17	48	24	11	848	52	18	53	22	8	850
C. They match just a little of what I have learned.	13	1	4	13	52	9	36	2	8	844	13	4	50	35	12	843	12	11	45	29	15	844
D. There is no match.	4	0	0	3	38	4	50	1	13	838	4	0	38	50	13	838	4	6	34	33	26	838
How difficult was the reading part of this test?																						
A. more difficult than my regular schoolwork	17	4	12	17	52	11	33	1	3	847	18	12	50	32	6	846	15	13	42	28	17	844
B. about the same as my regular schoolwork	66	15	12	72	57	28	22	12	9	849	66	12	57	22	9	849	64	19	53	20	7	850
C. easier than my regular schoolwork	16	5	16	15	48	8	26	3	10	849	16	16	48	26	10	849	22	25	52	16	6	852
How difficult were the reading passages on this test?																						
A. Most of the passages were more difficult than what I normally read.	6	0	0	5	42	4	33	3	25	837	7	0	36	29	36	833	8	6	34	34	26	838
B. Most of the passages were about the same as what I normally read.	61	14	12	59	51	33	29	9	8	848	61	12	51	29	8	848	52	14	54	24	8	848
C. Most of the passages were easier than what I normally read.	32	10	17	38	63	10	17	2	3	852	32	17	63	17	3	852	40	30	53	13	4	855
How hard did you try on the reading part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	46	12	14	44	51	24	28	6	7	849	46	14	51	28	8	849	39	19	50	22	9	849
B. I tried about the same as I do on my regular schoolwork.	48	12	13	54	60	16	18	8	9	850	47	13	60	18	9	850	54	21	53	19	7	851
C. I did not try as hard on this test as I do on my regular schoolwork.	7	0	0	6	46	6	46	1	8	839	7	0	43	43	14	837	7	12	46	27	15	845
How much time do you spend reading at home each day?																						
A. more than one hour	17	5	15	20	61	6	18	2	6	851	17	15	61	18	6	851	19	26	53	15	6	853
B. 20 minutes to an hour	37	10	14	39	55	18	25	4	6	849	37	14	55	25	6	849	40	25	52	17	6	852
C. less than 20 minutes	14	3	12	16	62	4	15	3	12	850	14	11	59	15	15	849	15	18	51	21	10	849
D. I rarely read at home.	32	6	10	29	48	19	31	7	11	845	32	10	47	31	13	845	26	7	50	30	13	844
How do you feel about the following statement?																						
"My knowledge of reading will be useful to me as an adult."																						
A. strongly agree	47	18	20	53	60	15	17	3	3	854	46	20	60	17	3	854	42	27	51	15	6	853
B. agree	45	6	7	46	53	23	27	11	13	845	45	7	53	26	14	844	50	15	53	23	9	848
C. disagree	5	0	0	2	20	6	60	2	20	837	6	0	18	55	27	835	7	8	46	32	14	843
D. strongly disagree	3	0	0	3	60	2	40	0	0	844	3	0	60	40	0	844	2	6	39	35	21	840
Optional school/SAU question																						
A.	33	0	0	0	0	1	50	1	50	829	33	0	0	50	50	829						
B.	50	0	0	2	67	1	33	0	0	842	50	0	67	33	0	842						
C.	0										0											
D.	17	0	0	0	0	0	0	1	100	822	17	0	0	0	100	822						

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards
 N = Number

MATHEMATICS RESULTS

Test Date: March 2009
Grade: 8
SAU: Biddeford School Department
School: Biddeford Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (Scaled Score 862–880)	2006-2007	13	7	13	7	1952	13
	2007-2008	11	5	11	5	1657	11
	2008-2009	15	8	15	8	2116	15
	Cum. Total*	39	7	39	7	5725	13
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (Scaled Score 842–860)	2006-2007	62	32	62	32	5870	38
	2007-2008	61	29	61	29	5956	40
	2008-2009	77	40	77	39	5443	38
	Cum. Total*	200	34	200	33	17269	39
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (Scaled Score 830–840)	2006-2007	44	23	44	22	3982	26
	2007-2008	65	31	65	31	3729	25
	2008-2009	48	25	48	24	3556	25
	Cum. Total*	157	26	157	26	11267	25
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (Scaled Score 800–828)	2006-2007	74	38	77	39	3534	23
	2007-2008	70	34	70	34	3579	24
	2008-2009	54	28	56	29	3356	23
	Cum. Total*	198	33	203	34	10469	23

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Mathematics Total Points	56	100	26.3	47.0	26.1	46.6	28.6	51.1
A. Number	8	14	3.1	38.8	3.1	38.8	3.7	46.3
B. Data	16	29	8.3	51.9	8.2	51.3	8.9	55.6
C. Geometry	12	21	4.8	40.0	4.7	39.2	5.0	41.7
D. Algebra	20	36	10.2	51.0	10.1	50.5	10.9	54.5

The MEA assesses students’ mathematics knowledge based on questions that measure the mathematics accountability content standards contained in Maine’s 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: <http://www.maine.gov/education/lres/pei/index.html>.

Content Standard A, Number, includes Whole Number, Rational Number, and Real Number.

Content Standard B, Data, includes Measurement and Approximation, Data Analysis, and Probability.

Content Standard C, Geometry, includes Geometric Figures, Geometric Measurement, and Transformations.

Content Standard D, Algebra, includes Symbols and Expressions, Equations and Inequalities, and Functions and Relations.

MATHEMATICS RESULTS

(CONTINUED)

Test Date: March 2009
 Grade: 8
 SAU: Biddeford School Department
 School: Biddeford Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	194	15	8	77	40	48	25	54	28	839	196	8	39	24	29	839	14471	15	38	25	23	843
Ethnicity																						
African American/Black	5	1	20	0	0	0	0	4	80	830	5	20	0	0	80	830	367	6	24	26	44	831
American Indian or Native Alaskan	1										1						114	5	31	32	32	836
Asian or Pacific Islander	3										3						233	27	33	20	21	847
Hispanic	5	0	0	2	40	1	20	2	40	838	5	0	40	20	40	838	190	8	31	26	34	836
Caucasian/White	180	14	8	71	39	47	26	48	27	839	182	8	39	26	27	839	13567	15	38	25	22	843
Not Reported	0										0						0					
Identified disability																						
Yes	26	0	0	5	19	3	12	18	69	821	28	0	18	11	71	820	2242	2	12	22	63	824
No	168	15	9	72	43	45	27	36	21	842	168	9	43	27	21	842	12229	17	42	25	16	846
Current LEP																						
Yes	3										3						336	6	18	26	51	829
No	191	15	8	75	39	47	25	54	28	839	193	8	39	24	29	839	14135	15	38	25	23	843
Economically disadvantaged																						
Yes	80	2	3	23	29	24	30	31	39	833	82	2	28	29	40	832	5270	6	30	28	36	835
No	114	13	11	54	47	24	21	23	20	844	114	11	47	21	20	844	9201	20	42	22	16	847
Migrant																						
Yes	0										0						5	0	0	40	60	828
No	194	15	8	77	40	48	25	54	28	839	196	8	39	24	29	839	14466	15	38	25	23	843
Gender																						
Female	109	5	5	44	40	28	26	32	29	837	109	5	40	26	29	837	7070	15	39	25	22	843
Male	85	10	12	33	39	20	24	22	26	841	87	11	38	23	28	841	7401	14	36	25	25	842
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	28	0	0	2	7	11	39	15	54	827	28	0	7	39	54	827	857	5	25	33	37	835
No	166	15	9	75	45	37	22	39	23	841	168	9	45	22	24	841	13614	15	38	24	22	843
Gifted/talented program																						
Yes	0										0						700	68	27	3	1	866
No	194	15	8	77	40	48	25	54	28	839	196	8	39	24	29	839	13771	12	38	26	24	841

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

MATHEMATICS RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2009
Grade: 8
SAU: Biddeford School Department
School: Biddeford Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	5	1	10	2	20	4	40	3	30	837	6	8	17	33	42	832	8	8	24	24	44	833
B. less than one hour	65	9	7	48	38	34	27	34	27	839	65	7	38	27	27	839	51	12	38	26	23	842
C. one to two hours	27	5	10	25	48	8	15	14	27	841	27	10	48	15	27	841	36	19	40	23	19	845
D. more than two hours	2	0	0	1	25	1	25	2	50	834	2	0	25	25	50	834	5	19	36	22	23	844
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	20	9	24	14	38	6	16	8	22	845	19	24	38	16	22	845	28	33	41	15	11	852
B. good	52	6	6	47	48	20	20	25	26	841	52	6	47	20	27	840	45	11	43	25	21	842
C. fair	22	0	0	12	29	14	33	16	38	832	22	0	29	33	38	832	21	3	27	35	35	834
D. poor	6	0	0	1	8	7	58	4	33	828	6	0	8	58	33	828	5	2	14	30	54	828
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	16	10	33	8	27	5	17	7	23	848	16	32	26	16	26	846	28	23	41	21	15	848
B. They match some of what I have learned.	58	3	3	48	44	28	25	31	28	839	58	3	43	25	29	839	52	13	40	25	21	843
C. They match just a little of what I have learned.	22	1	2	18	43	12	29	11	26	836	22	2	43	29	26	836	16	8	28	30	34	836
D. There is no match.	5	1	11	2	22	2	22	4	44	829	5	11	22	22	44	829	4	5	15	22	58	826
How difficult was the mathematics part of this test?																						
A. more difficult than my regular schoolwork	46	4	5	38	44	21	24	23	27	837	47	5	43	24	28	836	32	6	34	29	32	837
B. about the same as my regular schoolwork	44	5	6	31	38	22	27	23	28	840	43	6	38	27	28	840	52	13	41	25	20	843
C. easier than my regular schoolwork	10	5	26	6	32	4	21	4	21	849	10	26	32	21	21	849	16	39	35	13	13	853
How hard did you try on the mathematics part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	45	9	10	30	35	26	30	21	24	840	46	10	34	30	26	839	42	12	38	26	25	841
B. I tried about the same as I do on my regular schoolwork.	47	6	7	42	47	19	21	22	25	841	46	7	47	21	25	841	52	17	39	23	20	845
C. I did not try as hard on this test as I do on my regular schoolwork.	8	0	0	4	27	2	13	9	60	829	8	0	27	13	60	829	7	12	27	27	35	837
How often do you use calculators in mathematics class?																						
A. almost every day	21	2	5	20	51	9	23	8	21	841	20	5	51	23	21	841	34	18	40	22	20	845
B. two or three days a week	51	11	11	34	35	26	27	26	27	840	51	11	35	27	28	840	35	14	38	26	21	843
C. two or three times each month	24	2	4	18	40	10	22	15	33	836	24	4	39	22	35	836	18	12	37	27	24	841
D. never or almost never	5	0	0	4	44	2	22	3	33	836	5	0	44	22	33	836	13	9	32	25	34	837
How often do you use laptops in mathematics class?																						
A. almost every day	3	0	0	0	0	0	0	6	100	807	3	0	0	0	100	807	9	13	38	23	26	841
B. two or three days a week	13	0	0	7	29	8	33	9	38	835	12	0	29	33	38	835	17	11	37	26	26	841
C. two or three times each month	38	6	8	34	47	14	19	18	25	840	37	8	47	19	25	840	28	15	40	25	20	844
D. never or almost never	47	9	10	35	39	25	28	20	22	842	47	10	38	27	24	841	46	16	36	24	23	843
How do you feel about the following statement? "My knowledge of mathematics will be useful to me as an adult."																						
A. strongly agree	48	13	14	39	43	28	31	11	12	845	47	14	43	31	12	845	52	19	41	22	18	846
B. agree	43	2	2	30	37	17	21	32	40	834	43	2	36	20	41	834	39	11	35	27	27	840
C. disagree	5	0	0	4	44	0	0	5	56	833	5	0	44	0	56	833	6	7	28	26	39	835
D. strongly disagree	5	0	0	2	22	2	22	5	56	828	5	0	22	22	56	828	3	4	25	28	43	832
Optional school/SAU question																						
A.	33	0	0	0	0	0	0	2	100	817	33	0	0	0	100	817						
B.	50	0	0	0	0	0	0	3	100	821	50	0	0	0	100	821						
C.	0										0											
D.	17	0	0	0	0	0	0	1	100	806	17	0	0	0	100	806						

SCIENCE RESULTS

Test Date: March 2009
Grade: 8
SAU: Biddeford School Department
School: Biddeford Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (Scaled Score 862–880)	2008-2009*					2155	15
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (Scaled Score 842–860)	2008-2009*					6687	47
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (Scaled Score 828–840)	2008-2009*					3672	26
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems. Explanations are illogical, incomplete, or missing. There are many inaccuracies. (Scaled Score 800–826)	2008-2009*					1749	12

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Science Total Points	56	100			7.5	13.4	32.0	57.1
D. The Physical Setting	31	55			4.5	14.5	17.1	55.2
D1/D2 Earth/Space	17	30			2.0	11.8	9.4	55.3
D3/D4 Matter and Energy/Force and Motion	14	25			2.5	17.9	7.7	55.0
E. The Living Environment	25	45			3.0	12.0	14.9	59.6

The MEA assesses students’ science knowledge based on questions that measure the science accountability content standards highlighted in Maine’s 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: <http://www.maine.gov/education/lres/pei/index.html>.

Content Standard D. The Physical Setting

- D1 - Universe and Solar System
- D2 - Earth
- D3 - Matter and Energy
- D4 - Force and Motion

Content Standard E. The Living Environment

- E1 - Biodiversity
- E2 - Ecosystems
- E3 - Cells
- E4 - Heredity and Reproduction
- E5 - Evolution

SCIENCE RESULTS

(CONTINUED)

Test Date: March 2009
 Grade: 8
 SAU: Biddeford School Department
 School: Biddeford Middle School

REPORTING CATEGORIES	School									SAU						State						
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	0										2						14263	15	47	26	12	846
Ethnicity																						
African American/Black	0										0						360	4	31	35	30	835
American Indian or Native Alaskan	0										0						114	8	39	31	22	839
Asian or Pacific Islander	0										0						230	20	44	23	13	848
Hispanic	0										0						184	9	45	29	16	842
Caucasian/White	0										2						13375	15	47	25	12	846
Not Reported	0										0						0					
Identified disability																						
Yes	0										2						2221	3	22	36	38	832
No	0										0						12042	17	51	24	7	848
Current LEP																						
Yes	0										0						331	4	20	39	37	832
No	0										2						13932	15	48	25	12	846
Economically disadvantaged																						
Yes	0										2						5184	6	40	33	21	840
No	0										0						9079	20	51	21	8	849
Migrant																						
Yes	0										0						5	0	0	80	20	829
No	0										2						14258	15	47	26	12	846
Gender																						
Female	0										0						6953	14	47	28	11	846
Male	0										2						7310	16	46	24	13	846
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	0										0						828	5	35	40	20	839
No	0										2						13435	16	48	25	12	846
Gifted/talented program																						
Yes	0										0						699	65	34	2	0	865
No	0										2						13564	13	48	27	13	845

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

SCIENCE RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2009
 Grade: 8
 SAU: Biddeford School Department
 School: Biddeford Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	0										100	0	0	0	100	804	8	8	34	28	30	837
B. less than one hour	0										0						51	14	48	27	11	846
C. one to two hours	0										0						36	19	48	24	9	848
D. more than two hours	0										0						5	17	49	20	14	847
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	0										0						23	27	47	17	8	851
B. good	0										50	0	0	0	100	800	53	15	50	26	10	847
C. fair	0										0						20	4	43	35	18	840
D. poor	0										50	0	0	0	100	808	4	4	27	34	35	834
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?																						
A. The questions on the test match what I have learned in science class.	0										50	0	0	0	100	800	26	20	49	23	9	849
B. They match some of what I have learned.	0										0						51	14	48	26	11	846
C. They match just a little of what I have learned.	0										50	0	0	0	100	808	18	13	44	28	15	844
D. There is no match.	0										0						4	5	33	30	32	836
How difficult was the science part of this test?																						
A. more difficult than my regular schoolwork	0										100	0	0	0	100	804	32	13	45	28	14	844
B. about the same as my regular schoolwork	0										0						56	15	49	25	11	847
C. easier than my regular schoolwork	0										0						11	21	43	22	13	847
How hard did you try on the science part of this test?																						
A. I tried harder on this test than I do on my regular schoolwork.	0										50	0	0	0	100	800	39	14	47	27	12	845
B. I tried about the same as I do on my regular schoolwork.	0										0						55	17	48	25	10	847
C. I did not try as hard on this test as I do on my regular schoolwork.	0										50	0	0	0	100	808	6	8	36	29	26	839
Which courses do you plan to take before you graduate from high school?																						
A. earth and space science and/or biology	0										50	0	0	0	100	808	26	9	48	29	14	844
B. the course(s) described in A, plus chemistry	0										50	0	0	0	100	800	23	17	49	22	12	847
C. the course(s) described in B, plus physics	0										0						21	31	44	17	7	852
D. a life science and physical science class	0										0						30	7	46	32	14	842
How well does the following statement reflect your future goals? "I am interested in a career related to science, technology, engineering, or mathematics."																						
A. strongly agree	0										0						27	23	47	20	10	849
B. agree	0										100	0	0	0	100	804	37	14	47	27	12	846
C. disagree	0										0						25	11	48	29	12	845
D. strongly disagree	0										0						11	9	44	31	17	842
How do you feel about the following statement? "My knowledge of science will be useful to me as an adult."																						
A. strongly agree	0										0						31	22	46	22	10	849
B. agree	0										100	0	0	0	100	804	50	14	49	26	11	846
C. disagree	0										0						14	9	45	31	15	843
D. strongly disagree	0										0						5	3	38	34	25	837
Optional school/SAU question																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards
 N = Number